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Applicant: RICHARD G. HYATT JR.

S.N.: 08/720,070

Filed: 27 September 1996

For: *ELECTROMECHANICAL CYLINDER PLUG.*

Document(s) filed:

1. AMENDMENT (responsive to Paper No. 10)
2. Petition for a Three Month Extension of Time
3. Check #25530 for \$475.00 & Fee Transmittal



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

RICHARD G. HYATT JR.

Serial No.: 08/720,070

Examiner: BOUCHER, D.

Filed: 17 September 1996

Art Unit: 3627

For: ELECTROMECHANICAL CYLINDER PLUG

AMENDMENT

FILE

Assistant Commissioner
for Patents
Washington, D.C. 20231

Sir:

In response to the first Office action (Paper No. 10) dated 5 February 1998, the following amendments and remarks are respectfully submitted.

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Date: 08/05/98
I.D.: REB/kf

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IN THE CLAIMS

Please amend Claims 1, 6 and 11, as follows:

1. (Amended) A plug, comprising:

a first base bearing a keyway providing a first electrical conductor and an orifice spaced-apart from and separated by a mass of said plug from said keyway;

a second base separated by an axial length of said plug from said first base, said second base bearing means for supporting a cam, said mass being perforated by a plurality of radially oriented apertures forming a linear arrays;

an exterior surface extending between and engaging said first base and said second base;

a side bar
locking means [responsive] disposed within said apertures to reciprocate relative to said plug in response to a key inserted into said keyway to accommodate rotation of said plug relative to a cylinder surrounding said plug [when the key while inserted into said keyway engages in a selected relation with said locking means] and engaging the cylinder absent said selected relation;

a second electrical conductor terminating with an electrical contact exposed to an exterior of said first base through said [aperture] orifice;

an electronic logic circuit borne by said plug while coupled to receive electrical power and data signals via said first and second electrical conductors, and generating control signals in dependence upon said electrical power and data signals; and

an electrical operator disposed within one of said apertures, said operator having a

19 distal member travelling in dependence upon said control signals between a first position relative
20 to said exterior surface enabling rotation of said plug in relation to a cylinder surrounding said plug
21 and a second and different position relative to said exterior surface obstructing said rotation of said
22 plug in relation the cylinder.

1 6. (Amended) A lock, comprising:

2 a cylinder containing a hollow recess defining a longitudinal axis;

3 a plug bearing a plurality of open radially oriented apertures forming a linear array,
4 said plug being rotatable around said longitudinal axis while resident within said hollow recess, said
5 plug comprising:

6 a first base bearing a keyway providing a first electrical conductor and an
7 orifice spaced-apart from and separated by a mass of said plug from said keyway;

8 a second base separated by an axial length of said plug from said first base,
9 said second base bearing means for supporting a cam;

10 an exterior surface extending between and engaging said first base and said
11 second base;

12 locking means [responsive] disposed within said apertures to reciprocate
13 relative to said cylinder in response to a key inserted into said keyway to accommodate
14 rotation of said plug relative to a cylinder surrounding said plug when the key while inserted
15 into said keyway engages in a selected relation with said locking means and engaging the
16 cylinder absent said selected relation;

17 a second electrical conductor terminating with an electrical contact exposed
18 to an exterior of said first base through said [aperture] orifice;

19 an electronic logic circuit borne by said plug, coupled to receive electrical
20 power and data signals via said first and second electrical conductors, and generating control
21 signals in dependence upon said electrical power and data signals; and

22 an electrical operator disposed within one of said apertures, said operator
23 having a distal member radially reciprocating along an axis transverse to said longitudinal
24 axis, in dependence upon said control signals between a first position relative to said exterior
25 surface enabling said rotation of said plug in relation to said cylinder surrounding said plug
26 and a second and different position relative to said exterior surface obstructing in concert
27 with said locking means, said rotation of said plug in relation said cylinder.

1 11. (Amended) A lock, comprising:

2 a shell containing a hollow recess defining a longitudinal axis and an intenser
3 cylindrical surface;

4 a plug rotatable around said longitudinal axis while resident within said hollow
5 recess, a bar interposed between said shell and said plug to reciprocate generally along a radial plate
6 between a first position engaging both said shell and said plug while obstructing rotation of said
7 plug within said recess, and a second position accommodating said rotation; said plug comprising:

8 a first base bearing a keyway providing a first electrical conductor and an
9 orifice spaced-apart from and separated by a mass of said plug from said keyway;

10 a second base separated by an axial length of said plug from said first base,
11 said second base bearing means for supporting a cam;

12 an exterior surface extending between and engaging said first base and said
13 second base;

14 locking means responsive to a key inserted into said keyway to accommodate
15 reciprocation of said bar between said first position and said second position when the key
16 while inserted into said keyway engages in a selected relation with said locking means and
17 obstructing said reciprocation absent said selected relation;

18 a second electrical conductor terminating with an electrical contact exposed
19 to an exterior of said first base through said [aperture] orifice;

20 an electronic logic circuit coupled to receive electrical power and data signals
21 via said first and second electrical conductors, and generating control signals in dependence
22 upon said electrical power and data signals; and

23 an electrical operator having a distal member radially reciprocating along an
24 axis transverse to said longitudinal axis, in dependence upon said control signals between
25 a first orientation relative to said exterior surface enabling said reciprocation and a second
26 and different [orientation] orientation relative to said exterior surface obstructing said
27 reciprocation.

REMARKS

Claims 1 through 11 remain pending. Three claims are amended to correct questions of antecedent basis.

Claims 1 through 11 were rejected under 35 U.S.C. §102(e) as clearly anticipated by Gokcebay, U.S. Patent No. 5,552,777. In support of the rejection, the Examiner asserted that Gokcebay '777 inherently is attached to "some form of typical cam actuator." Applicant traverses this rejection for the following reasons.

Gokcebay '777 discloses a solenoid operator 36 with a blocking pin 38 acting directly upon a cylinder, wholly independently from the chimney stack (not separately numbered in Figs. 3, 4 and 5) coupled to tumbler bores 52. In Paper No. 4 the Examiner expressly stated that Claims 1 through 3 are generic "to a plurality of disclosed patentably distinct species", and identified the species F (drawn to the embodiment shown in Applicant's Fig. 8H) as patentably distinct from the embodiments of species E, shown by Applicant's Figs. 8A-8G. The Examiner has in Paper No. 7 made this requirement final, and repeated the same statement in Paper No. 10. The embodiments of Gokcebay '777 correspond to non-elected species F. In contradistinction, Claims 1 and 6, as amended, define an array of apertures with the locking means in the electrical operator disposed within the aperture. This is, as noted by the Examiner in Papers 4, 7 and 10, "patentably distinct" from the embodiment shown in Applicant's Fig. 8H and in Gokcebay '777. Moreover, Claim 11 defines the locking means and electrical operator as affecting reciprocation of a bar, a feature wholly

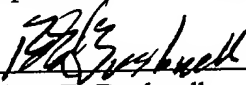
absent from Gokcebay 777.

In view of the foregoing distinctions, Gokcebay 777 fails to make a *prima facie* showing of obviousness.

A Petition for a third month extension of time to and through the 5th of August 1998 and the incurred fee of \$475.00 (Small Entity) accompany this Amendment. Should the Petition become lost or separated, the Commissioner is authorized to treat this paragraph as the requisite written petition, and to charge Deposit Account No. 02-4943 of Applicant's undersigned attorney in such amount.

In view of the foregoing amendments, arguments and remarks, all claims are deemed to be allowable and this application is believed to be in condition to be passed to issue. Should any questions remain unresolved, the Examiner is requested to telephone Applicant's attorney.

Respectfully submitted,


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